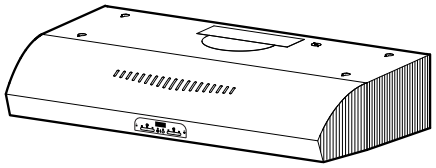
BROAN®

MODELS QP330BL • QP330SS • QP330WW
QP336BL • QP336SS • QP336WW
QP342BL • QP342SS • QP342WW

EVOLUTION™ 3
QP3 Series Range Hoods



READ AND SAVE THESE INSTRUCTIONS

FOR DOMESTIC COOKING ONLY

WARNING

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

1. Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer at the address or telephone number listed in the warranty.
2. Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
3. Installation work and electrical wiring must be done by a qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
4. Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent backdrafting. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.
5. This product may have sharp edges. Be careful to avoid cuts and abrasions during installation and cleaning.
6. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
7. Ducted fans must always be vented to the outdoors.
8. Use only metal ductwork.
9. Do not use this fan with any solid-state speed control device.
10. As an alternative, this product may be installed with the UL-approved cord kit designated for the product, following instructions packed with the cord kit.
11. This unit must be grounded.

TO REDUCE THE RISK OF A RANGE TOP GREASE FIRE:

1. Never leave surface units unattended at high settings. Boilovers cause smoking and greasy spillovers that may ignite. Heat oils slowly on low or medium settings.
2. Always turn hood ON when cooking at high heat or when cooking flaming foods (i.e. Crepes Suzette, Cherries Jubilee, Peppercorn Beef Flambé).
3. Clean ventilating fans frequently. Grease should not be allowed to accumulate on fan or filter.
4. Use proper pan size. Always use cookware appropriate for the size of the surface element.

TO REDUCE THE RISK OF INJURY TO PERSONS IN THE EVENT OF A RANGE TOP GREASE FIRE, OBSERVE THE FOLLOWING:*

1. SMOTHER FLAMES with a close-fitting lid, cookie sheet, or metal tray, then turn off the burner. BE CAREFUL TO PREVENT BURNS. If the flames do not go out immediately, EVACUATE AND CALL THE FIRE DEPARTMENT.

WARNING

2. NEVER PICK UP A FLAMING PAN — You may be burned or spread the fire.
3. DO NOT USE WATER, including wet dishcloths or towels - violent steam explosion will result.
4. Use an extinguisher ONLY if:
   A. You know you have a Class ABC extinguisher and you already know how to operate it.
   B. The fire is small and contained in the area where it started.
   C. The fire department is being called.
   D. You can fight the fire with your back to an exit.

* Based on "Kitchen Fire Safety Tips" published by NFPA.

CAUTION

1. For indoor use only.
2. For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
3. To avoid motor bearing damage and noisy and/or unbalanced impeller, keep drywall spray, construction dust, etc., off power unit.
4. Do not use over cooking equipment greater than 60,000 BTU/hr. as the blower motor will shut down intermittantly.
5. Your hood motor has a thermal overload which will automatically shut off the motor if it becomes overheated. The motor will restart when it cools down. If the motor continues to shut off and restart, have the hood serviced.
6. The top of the hood MUST NOT BE LESS than 24" and at a maximum of 30" above cooktop for best capture of cooking impurities.
7. This hood is not intended to be used as a shelf.
8. Please read specification label on product for further information and requirements.

NOTE If hood is to be installed non-ducted:

Purchase a set of (2) non-ducted filters for 30" wide hoods (Model BPPF30) & 36" wide hoods (Model BPPF36) or a set of (3) non-ducted filters for 42" wide hoods (Model BPPF42) from your local distributor or retailer and attach them to the aluminum mesh filters.

Installer: Leave this manual with the homeowner.
Homeowner: Cleaning, Maintenance and Operating instructions on page 2.

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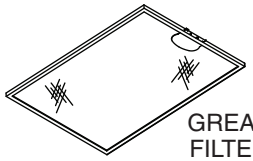
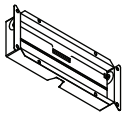
CONTENTS

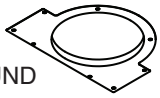
INCLUDED WITH THE HOOD:



GREASE FILTERS
(2 - FOR 30" & 36" HOODS)
3 - FOR 42" HOODS)



(1) 3¼" X 10" DAMPER / DUCT CONNECTOR



(1) 7" ROUND DUCT CONNECTOR

(4) HALOGEN BULBS

(1) PARTS BAG CONTAINING:

(3) WIRE NUTS

(1) BULB SUCTION CUP TOOL

(1) NON-DUCT DIVERTER

(9) #8 X 1/4" DUCT CONNECTOR SCREWS

(2) #8 X 5/16" MACHINE SCREWS & (2) #8 WASHERS FOR NON-DUCT DIVERTER

(5) #10 X 5/8" RD. HD. MOUNTING SCREWS

CLEANING & MAINTENANCE

For performance, appearance, and health reasons, clean filter, fan and grease-laden surfaces. Use **only** a clean cloth and mild detergent solution on stainless and painted surfaces.

Clean all-metal filters in the dishwasher using a non-phosphate detergent. Discoloration of the filter may occur if using phosphate detergents, or as a result of local water conditions - but this will not affect filter performance. This discoloration is not covered by the warranty.

Clean the non-duct recirculating filter surfaces frequently with a damp cloth and a mild detergent. DO NOT immerse filters in water or put in dishwasher. The special "Clean Sense" feature indicates when the filter is to be replaced. The blue and yellow strips will blend to green when it is time to change the filter. The "Clean Sense" feature works best when facing toward the cooking surface. Change the non-duct recirculating filters every 6 months. For replacement non-duct recirculating filters - purchase S99010353 or Model BPPF30 for 30 wide hoods", S99010354 or Model BPPF36 for 36" wide hoods, or S99010360 or Model BPPF42 for 42" wide hoods.

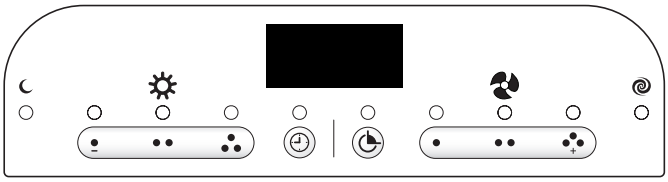
The motor is permanently lubricated and never needs oiling. If the motor bearings make excessive or unusual noise, replace the motor with the exact service motor. The impeller should also be replaced.

Use 120 V, 50 W, shielded halogen bulbs - MR16 with GU10 base.

OPERATION

Always turn the hood ON before cooking in order to establish an air flow in the kitchen. After turning off the range, let the hood run for a few minutes to clear the air.

Operate the hood as follows:



NOTE

The ● and ●+ buttons are used to adjust and toggle the menu and timer settings.

LIGHT (3-Pushbutton Switches 4-light Settings)

● Turns the light on the low setting and activates a green indicator above the button. Pressing the ● button a second time activates the night time setting and illuminates the ☾ indicator.

●● Turns the light on the medium setting and activates a green indicator above the button.

●+● Turns the light on the high setting and activates a green indicator above the button.

Pressing and holding the same light button again will turn the lights off.

When the night time setting is active, pressing and holding the low light setting button ● will turn the night time setting off.

FAN (3-Pushbutton Switches 4-fan speeds)

● Turns the fan on the low speed and activates a green indicator above the button.

●● Turns the fan on the medium speed and activates a green indicator above the button.

●+● Turns the fan on the high speed and activates a green indicator above the button. Pressing the ●+● button a second time activates the boost fan speed and illuminates the ◎ indicator.

Pressing and holding the same fan button again will turn the fan off.

When the boost speed is active, pressing and holding the high speed button will turn the boost speed off.

NOTE

This hood utilizes an offset blower design to achieve greater performance and lower sound levels. As a result, you may notice that cooking impurities are more attracted to one side or appear to be pulled-in faster than they appear on the opposite side. This is completely normal. The hood has been designed and tested to provide good capture of cooking impurities and odors under all normal cooking conditions regardless of the cooking location on the cooktop. Please note that cooking on the rear burners will always result in the best capture of cooking impurities, regardless of the hood design.

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10-MINUTE DELAY OFF

When your hood fan is on (any speed) press the button to activate the delay off feature. When activated, the hood fan will automatically turn off after 10-minutes has elapsed. The delay feature is active when the following appear on the LED screen: A green indicator illuminated above the delay button, a numeric countdown "10-0", and a clockwise rotating LED. The delay button can be pressed once again, to stop the delay countdown. Pressing the button again will resume the delay countdown. Pressing and holding the button will turn off the feature.

TIMER

Press the button to activate the timer setting feature. Use the and buttons to reduce or advance the timer setting to the desired duration. When the desired timer setting is reached, allow 3 seconds without pressing any additional button or press the button once again. The timer will then activate, and the countdown will be displayed on the LED screen along with an green indicator above the button. After the timer has reached "0:00", an audible beep will be heard. The beep will continue until the timer button is pressed once again. The timer countdown can be stopped at any time by pressing the once again. Pressing the button again will resume the timer countdown. Pressing and holding the button will turn off the feature. Note that when both the timer and delay off features are active together, the timer function will be illuminated on the LED display, and the delay off countdown will be active, but not displayed.

FEATURE MENU

Your hood offers many settings that can be accessed and adjusted by scrolling through the feature menu. Your hood fan must be off to be able to activate and access the feature menu. Pressing the button when the hood fan is off will activate the feature menu. Pressing the button again when the feature menu is active will scroll through the various features that can be adjusted/set. When the feature menu is active, if a button is not pressed within 10 seconds or after scrolling through all menu settings, the feature menu will automatically be exited, and all selected settings will be saved. A green indicator above the icon will illuminate when the feature menu is active. The following features can be adjusted sequentially:

CLOCK SETTING

Press the button once, the "hours" will begin blinking in the LED screen. Use the and buttons to set the appropriate hours for the clock. A small indicator will illuminate in the left corner of the LED screen to designate "pm". After the hours are set, press the button to advance the menu to the minute selection. The minutes will begin blinking in the LED screen. Use the and buttons to set the minutes. Press the button again to advance the menu to select "display" settings.

DISPLAY *(default from factory - display ON)*

The LED screen will display the display feature -d-. Use the or button to toggle the LED screen on (d on) or off (doFF). When the display off (doFF) feature is selected, the LED display clock illumination is disabled. Press the button again to advance the menu to select the "Sleep" setting.

SLEEP MODE *(default from factory - OFF)*

The LED screen will display the "Sleep" feature -S- . Use the or button to toggle the Sleep feature on (S on) or off (S off). When the Sleep on (S on) feature is selected, the LED screen and fan/light LED indicators are disabled. The ambient light sensor, delay-off and timer features will also be disabled. All controls for the fan and light operation, including Heat Sentry, are still active. Press the button again to advance the feature menu to select the "Ambient Light Sensor" setting. Note: To access the feature menu when the Sleep Mode is active, press and hold the button for 2 seconds.

AMBIENT LIGHT SENSOR *(default from factory - Level 1 ON)*

There are two level settings for the ambient light sensor. When either of the two settings is active, the light sensor will detect a low level of light in your kitchen, and will automatically turn the task lights on the hood to the night time setting. The other light settings are still functional. If selected when the ambient light sensor is active, they will temporarily overide the ambient light sensor until they are turned off. The level 1(Aon1) ambient light sensor setting will require your kitchen to be more dark than the level 2 (Aon2) setting before activating the night time setting. The LED screen will display the ambient light sensor function -A-. Use the or button to select the light sensor setting Aon1, Aon2, or AoFF. The Off (AoFF) setting deactivates the automatic ambient light sensor feature so the night time light operation is manual.

Note that the feature menu can be exited any time by not pressing any button(s) for 10 seconds or by scrolling through the entire feature menu.

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HEAT SENTRY SYSTEM

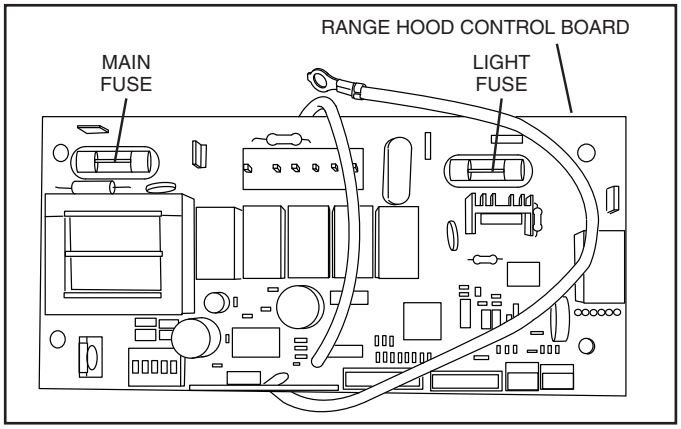
This range hood is equipped with an advanced Heat Sentry system that monitors excessive temperature and automatically adjusts the fan to the appropriate setting.

1) **If the fan is on**, the Heat Sentry system will increase the fan setting when the temperature is elevated. If the temperature continues to rise, the Heat Sentry system will continue to increase the fan setting until the temperature is stabilized or reduced. The flashing light above the fan button shows the Heat Sentry system fan setting. Once the temperature has reduced, the Heat Sentry system will change the fan to the original setting.

2) **If the fan is off**, the Heat Sentry system will automatically turn the fan on to its highest speed when the temperature is above normal. When the Heat Sentry system is on, the light above the high speed fan button will flash on and off. After the temperature has lowered to normal, the fan speed will be reduced until the temperature has stabilized, then the fan will turn off.

Note: Canadian version does not have this function.

FUSES



The **Range Hood Control Board** contains a **Main Fuse** and a **Light Fuse** to protect the controls from power surges. If a fuse has opened (blown), the green fan setting or light setting indicators will not operate properly when the fan or light buttons are pressed, and the fan and lights will not turn on.

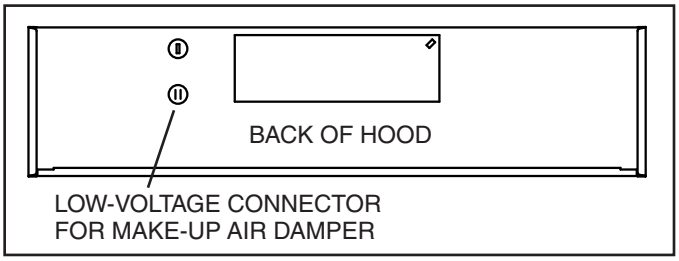
New fuses can be purchased at your local electronic supply store. Use 8A, 120V, 5 mm diameter, 20 mm long, fast-acting, cartridge-type fuses.

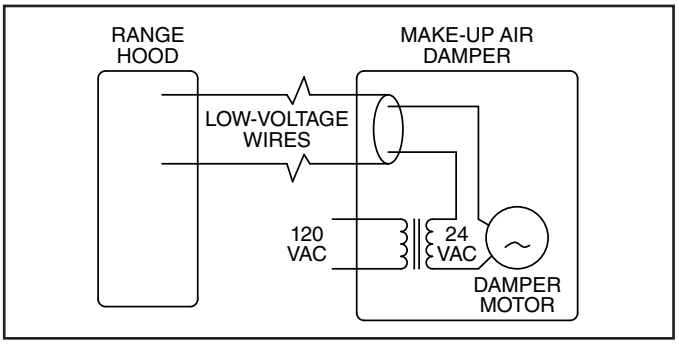
To replace a fuse:
1. Disconnect power at service entrance.
2. Remove filters and bottom pan.
3. Remove and inspect fuse. If it is not open (blown), additional diagnostics are needed.

MAKE-UP AIR DAMPER

The hood is compatible with Broan Make-Up Air Damper Model MD6T or Model MD8T (optional). Purchase separately.

Make the connection to the Make-Up Air Damper with low voltage wiring, as shown. See Make-Up Air Damper instructions for additional information.

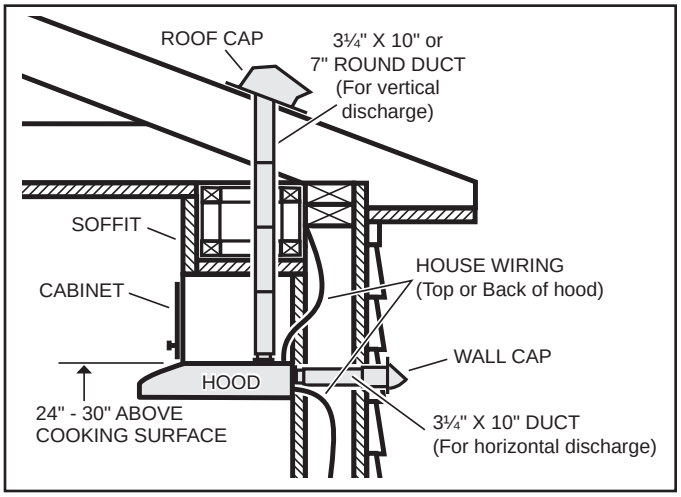




REMOTE CONTROL

The hood is compatible with Broan RF Remote Control Model BCR1 (optional). Purchase separately.

PREPARE HOOD LOCATION


ROOF CAP
3¼" X 10" or 7" ROUND DUCT (For vertical discharge)
SOFFIT
CABINET
HOUSE WIRING (Top or Back of hood)
WALL CAP
HOOD
24" - 30" ABOVE COOKING SURFACE
3¼" X 10" DUCT (For horizontal discharge)

1 Determine whether hood will discharge vertically (3¼" x 10" or 7" Round), or horizontally (3¼" x 10" only). For vertical or horizontal discharge, run ductwork between the hood location and a roof cap or wall cap. For best results, use a minimum number of transitions and elbows.

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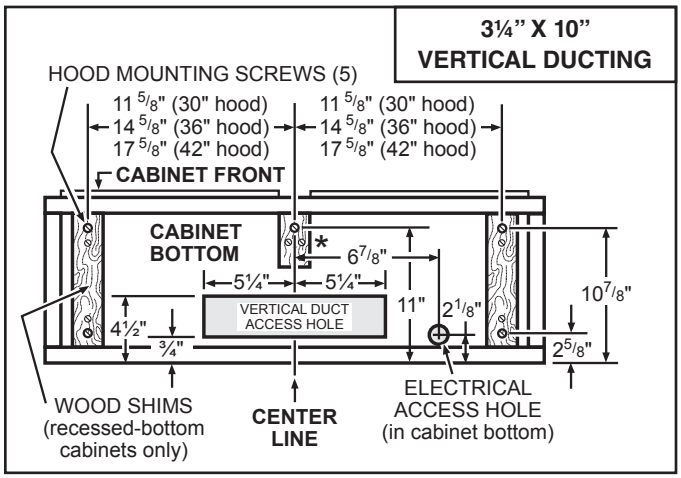
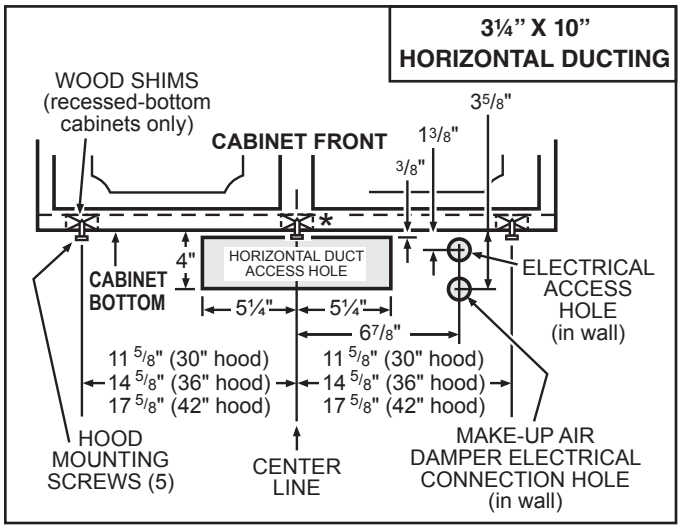
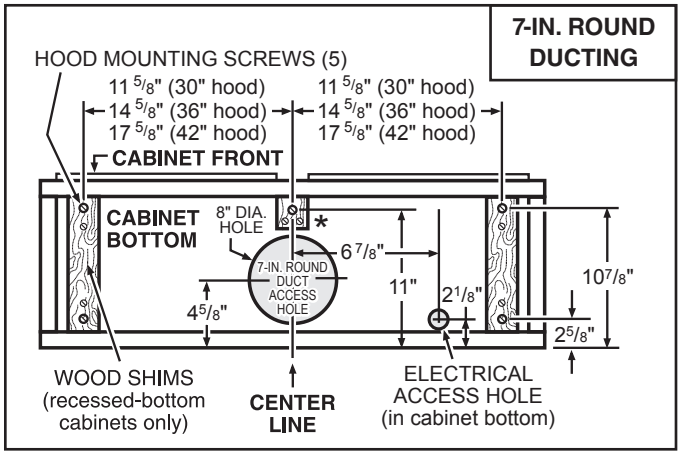
2 Use the proper diagram below, for placement of ductwork and electrical cutout in cabinet or wall. For a non-ducted installation, DO NOT cut a duct access hole.





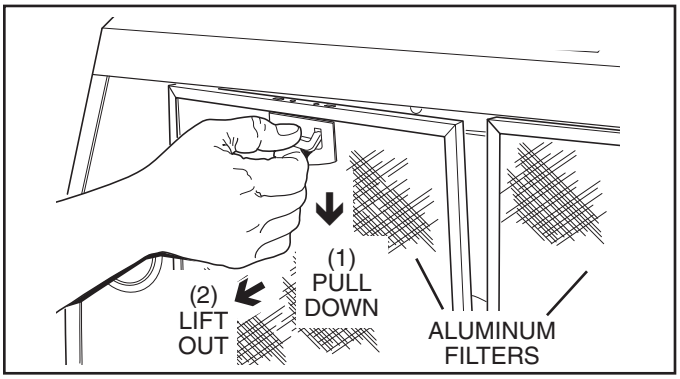


* Note the extra wood shim and mounting screw near the cabinet front, on the cabinet center line.

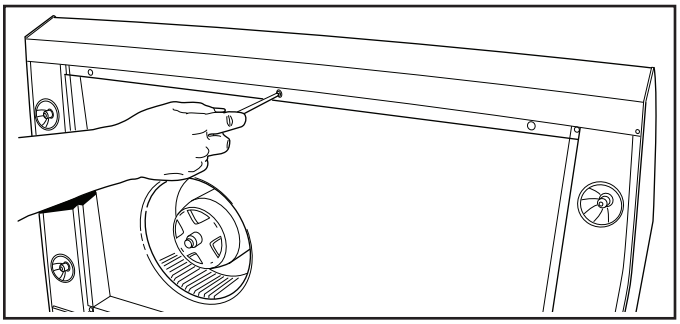
PREPARE THE HOOD

3 Remove parts bag from inside the foam packaging end cap.

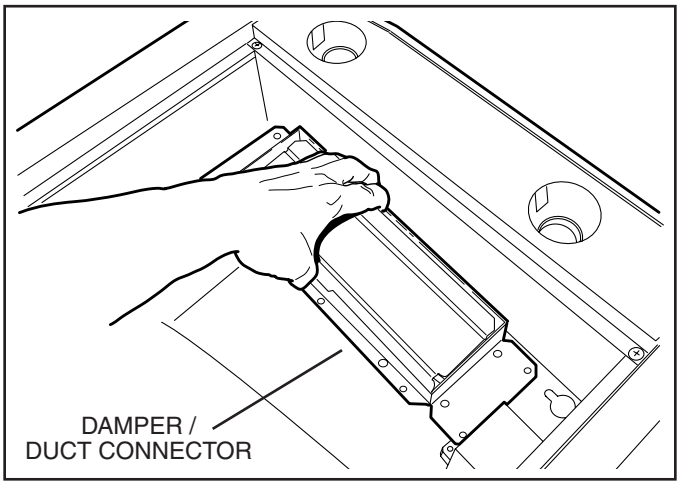
4 Remove all protective polyfilm from the hood (stainless steel hoods only).



5 Remove the **Aluminum Filters** from the hood.



6 Remove 6 **Screws** holding **Bottom Pan** to hood. Set bottom pan and screws aside.



7 Remove 2 **Screws** holding **Damper / Duct Connector** to hood. Remove damper/duct connector from inside the hood.

FOR DUCTED INSTALLATIONS - Skip to Step 12.

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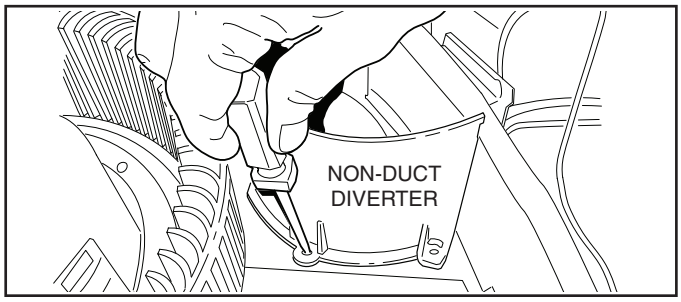
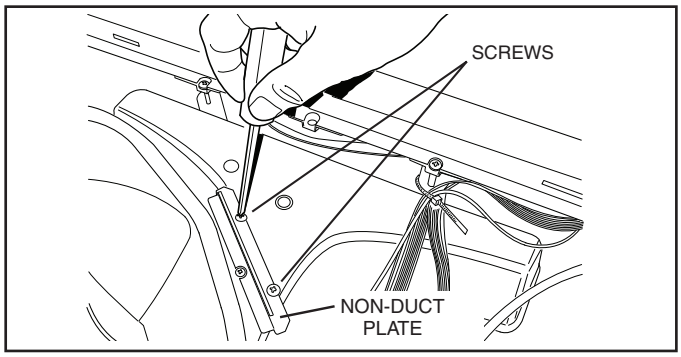
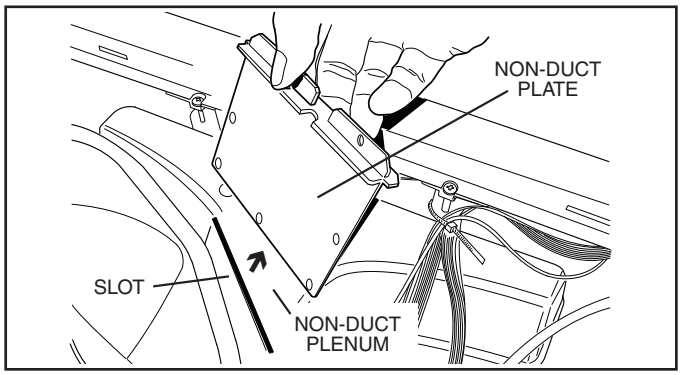
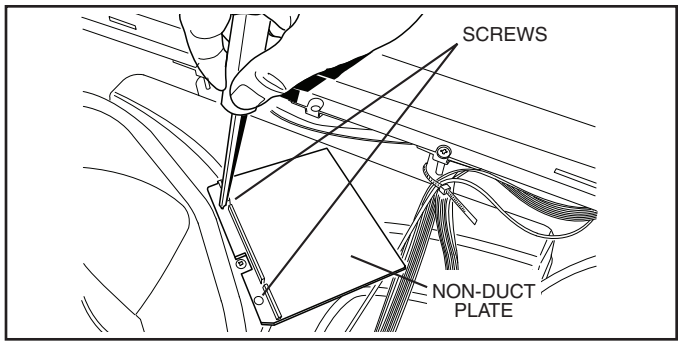


8 **NON-DUCTED INSTALLATION ONLY:**
From parts bag: Attach **Non-Duct Diverter** to **Air Box** with 2 **Screws** and 2 **Washers**.





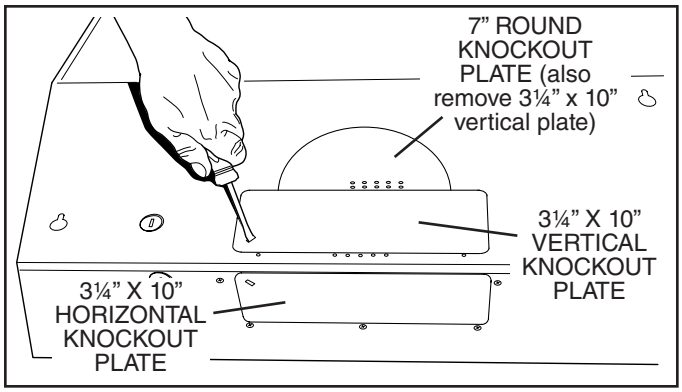
9 **NON-DUCTED INSTALLATION ONLY:**
Remove 2 **Screws** holding **Non-Duct Plate** to **Non-Duct Plenum** and remove plate.



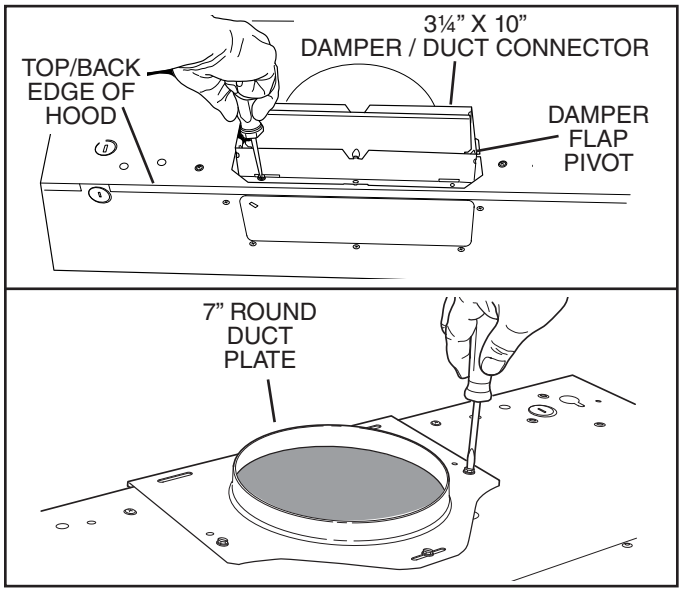
10 **NON-DUCTED INSTALLATION ONLY:**
Insert short end of **Non-Duct Plate** into Non-Duct Plenum **Slot**. Attach with 2 **Screws** removed in Step 9.

11 **NON-DUCTED INSTALLATION ONLY:**
Purchase a set of (2) non-ducted filters for 30" wide hoods (Model BPPF30) & 36" wide hoods (Model BPPF36) or a set of (3) non-ducted filters for 42" wide hoods (Model BPPF42) from your local distributor or retailer. Attach the non-ducted filters to the aluminum mesh filters following instructions packed with the non-ducted filters.

FOR NON-DUCTED INSTALLATIONS - Skip to "INSTALL THE HOOD".



12 **DUCTED INSTALLATION ONLY:**
Remove 3¼" x 10 vertical, 3¼" x 10" horizontal, or 7-inch round **knockout plate(s)** as appropriate for your ducting method.



13 **DUCTED INSTALLATION ONLY:**
Attach **3¼" x 10" Damper/Duct Connector** (if using 3¼" x 10" duct) or **7" Round Duct Plate** (if using 7-inch round duct) over the knockout opening.

Notes:

To accomodate off-center ductwork, the 3¼" x 10" damper/duct connector can be installed up to ½" on either side of the hood center and the 7" round duct plate can be installed up to ½" on either side of the hood center.

Install the 3¼" x 10" Damper/Duct Connector with the **Damper Flap Pivot** nearest the **Top/Back Edge of Hood**.

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